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ARMY ELECTRONICS COMMAND WHITE SANDS MISSILE RANGE N--ETC F/G 4/2
12811A LANCE MISSILE NUMBER 2611, ROUND NUMBER 287 ACT (30 SEPT--ETC(U)
SEP 76

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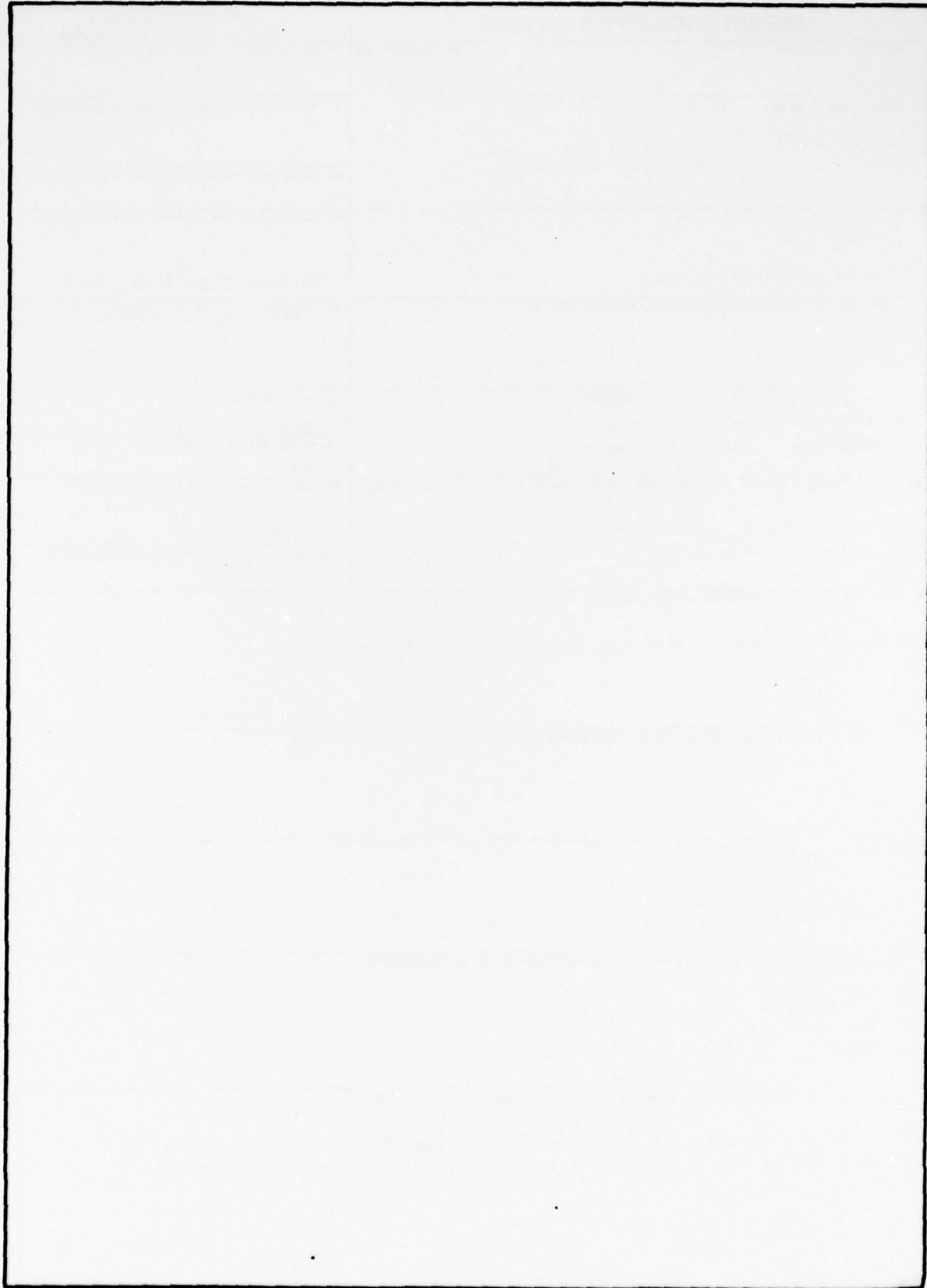
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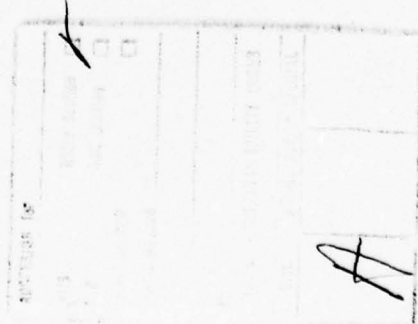
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INTRODUCTION

12811A Lance, Missile Number 2611, Round Number 287 ACT, was launched from Don Site, White Sands Missile Range (WSMR), New Mexico, at 0746 HRS MDT, 30 September 1976. The scheduled launch time was 0745 HRS MDT.

DISCUSSION

Meteorological data were recorded and reduced by the WSMR Meteorological Team, Atmospheric Sciences Laboratory, (ASL), WSMR, New Mexico. The data are presented in the following tabulations.

ELEVATION	3,997.64	FEET/MSL
PRESSURE	883.4	MBS
TEMPERATURE	10.7	°C
RELATIVE HUMIDITY	63	%
DEW POINT	7.2	°C
DENSITY	1,078.0	GM/M ³
WIND SPEED		CALM
WIND DIRECTION		CALM
CLOUD COVER	.1	Ci

TABLE 1. SURFACE OBSERVATIONS TAKEN AT DON SITE,
0745 HRS MDT/30 SEPTEMBER 1976.

ELEVATION	3,990.0	FEET/MSL
PRESSURE	883.7	MBS
TEMPERATURE	10.2	°C
RELATIVE HUMIDITY	57	%
DEW POINT	2.2	°C
DENSITY	1,082.0	GM/M ³
WIND SPEED	03	MPH
WIND DIRECTION	030	DEGREES
CLOUD COVER	2	C1

TABLE II. SURFACE OBSERVATIONS TAKEN AT WSD,
0745 HRS MDT/30 SEPTEMBER 1976.

T-TIME (MIN-SEC)	SPEED (MPH)	DIR DEG
-0.30	3.0	332
-0.20	3.0	332
-0.10	3.0	332
00.00	3.0	332

TABLE III. ANEMOMETER-MEASURED WIND SPEED AND DIRECTION, POLE NO. 1
12811A LANCE, MISSILE NO. 2611, ROUND NO. 287 ACT
LAUNCHED FROM DON SITE, 0746 MDT/30 SEPTEMBER 1976

WSTM COORDINATES : X = 512,027.48 Y = 247,400.25 Z = 3,997.64

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR		CALM	2100	120	10.0
100	153	1.0	2200	121	10.5
200	146	1.5	2300	126	11.0
300	141	3.0	2400	126	12.0
400	144	4.5	2500	128	12.0
500	146	5.5	2600	130	13.0
600	148	6.5	2700	131	14.0
700	148	7.5	2800	130	15.0
800	152	8.5	2900	130	15.5
900	151	9.0	3000	129	16.0
1000	151	9.0	3100	130	16.5
1100	148	9.5	3200		
1200	144	9.5	3300		
1300	142	9.0	3400		
1400	135	9.0	3500		
1500	130	8.5	3600	130	16.5
1600	123		3700	128	15.5
1700	118		3800	126	14.5
1800	115		3900	121	13.5
1900	114		4000	114	12.0
2000	115	8.5	4100	106	11.0
		9.5		102	9.5

TABLE IV. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 1
RELEASED FROM DON SITE, AT 0741 MDT/30 SEPTEMBER 1976
12811A LANCE, MISSILE NO. 2611, ROUND NO. 287 ACT

PIBAL RELEASE POINT WSTM COORDINATES:

X = 512,027.48 Y = 247,400.25 Z = 3,997.64

APPROXIMATELY: 1/4 MILE EAST OF LAUNCHER.

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	099	9.0
4300	100	8.5
4400	101	8.0
4500	101	7.5
4600	101	8.0
4700	100	8.5
4800	102	9.5
4900	103	11.0
5000	104	13.0
5100	105	13.5
5200	108	13.0
5300	111	12.5
5400	119	11.5
5500	127	10.5
5600	133	10.5

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
5700	135	10.5
5800	139	11.5
5900	137	11.5
6000	132	13.0
6100	124	12.5
6200	115	11.5
6300	109	10.5
6400	112	9.0
6500	113	7.5
6600	114	6.0
6700	122	4.5
6800	124	3.5
6900	129	3.0
7000	127	2.5

TABLE IV. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR		CALM
100		CALM
200	180	1.0
300	146	3.5
400	149	6.0
500	140	8.0
600	139	9.0
700	143	10.0
800	143	10.0
900	146	11.0
1000	151	10.5
1100	144	7.0
1200	151	5.0
1300	135	3.0
1400	112	2.5
1500	096	4.5
1600	090	7.5
1700	090	8.5
1800	090	10.0
1900	093	10.0
2000	098	11.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
2100	103	11.0
2200	109	12.0
2300	115	13.0
2400	122	14.0
2500	125	14.5
2600	127	15.0
2700	127	15.0
2800	127	15.0
2900	128	15.5
3000	128	15.5
3100	127	15.0
3200	125	14.5
3300	124	14.5
3400	122	14.0
3500	119	13.0
3600	116	13.0
3700	110	11.5
3800	105	11.5
3900	101	10.5
4000	096	10.0
4100	096	10.0

TABLE V. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 2
RELEASED FROM DON SITE, AT 0749 MDT/30 SEPTEMBER 1976
12811A LANCE, MISSILE NO. 2611, ROUND NO. 287 ACT

PIBAL RELEASE POINT WSTM COORDINATES:

X = 512,027.48 Y = 247,400.25 Z = 3,997.64

APPROXIMATELY: 1/4 MILE EAST OF LAUNCHER.

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	099	10.0
4300	099	9.5
4400	099	9.5
4500	103	9.0
4600	106	9.5
4700	111	9.5
4800	117	10.0
4900	124	11.0
5000	130	11.5
5100	132	12.0
5200	132	12.0
5300	130	11.5
5400	124	11.0
5500	111	9.5
5600	111	9.5
5700	118	9.5
5800	125	10.5
5900	135	11.0
6000	143	12.5
6100	143	12.5
6200	142	11.5
6300	141	10.5
6400	135	8.0
6500	129	6.5

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
6600	128	5.5
6700	120	4.0
6800	117	3.5
6900	112	2.5
7000	117	2.0
7100	146	2.0
7200	166	2.0
7300	180	2.0
7400	333	1.0
7500	333	2.0
7600	333	2.0
7700	333	2.0
7800	323	2.5
7900	323	2.5
8000	315	2.0
8100	315	1.5
8200	342	1.5
8300	014	2.0
8400	016	3.5
8500	024	5.0
8600	035	6.0
8700	045	6.5
8800	045	6.5
8900	045	6.5

TABLE V. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
9000	041	5.5
9100	032	4.5
9200	027	4.5
9300	027	4.5
9400	041	4.5
9500	056	5.5
9600	076	6.0
9700	056	9.0
9800	097	8.0
9900	104	8.0
10000	101	8.0
10100	098	7.5
10200	094	6.5
10300	095	5.5
10400	104	4.0
10500	129	3.0

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
10600	149	3.0
10700	180	2.5
10800	202	2.5
10900	243	3.5
11000	279	6.0
11100	274	7.0
11200	264	5.0
11300	247	4.0
11400	225	4.0
11500	217	5.0
11600	209	6.5
11700	204	7.0
11800	200	7.5
11900	198	6.5
12000	195	5.5

TABLE V. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

STATION ALTITUDE 4126.59 FEET MSL
30 SEP. 76
ASCENSION NO. 555

SIGNIFICANT LEVEL DATA
2740010555
HOLLOMAN
TABLE VI

WSHM SITE COORDINATES
571739.24 FEET E
362745.21 FEET N

PRESSURE GEOMETRIC ALTITUDE		TEMPERATURE		REL. HUM. PERCENT
MILLIBARS	MSL FEET	AIR DEGREES	DEWPOINT CENTIGRADE	
379.8	4126.6	8.9	2.0	62.0
868.3	4458.3	16.6	7.0	53.0
350.0	5053.3	15.6	4.9	49.0
788.6	7139.7	14.6	3.1	46.0
700.0	10405.1	7.1	-5.5	40.0
648.8	12444.1	3.5	-10.5	35.0
519.8	13660.8	2.4	-17.1	22.0
611.0	14041.1	3.4	-16.8	21.0
593.4	14818.0	2.0	-15.4	24.0
542.8	17154.8	-4.1	-20.3	27.0
516.6	19433.7	-5.7	-22.5	25.0
500.0	19271.3	-8.3	-23.5	28.0
461.0	21331.1	-11.6	-27.2	26.0
432.2	22943.1	-16.1	-30.3	28.0
400.0	24846.6	-20.0	-34.9	25.0
377.2	28927.1	-20.5	-43.0	28.0
300.0	31631.2	-35.9	-48.4	26.0
294.8	32030.3	-37.0	-49.4	26.0
256.2	35168.4	-45.5		
250.0	35706.0	-45.8		
200.0	40512.3	-53.9		
164.6	44545.5	-63.3		
150.0	45407.9	-67.5		
129.2	49336.0	-72.4		
126.0	49819.4	-74.7		
119.8	50791.3	-72.8		
110.6	52339.6	-72.3		
100.0	54294.6	-72.3		
84.4	57601.8	-70.4		
81.6	58267.2	-67.8		

STATION ALTITUDE 4126.59 FEET MSL
 30 SEP. 75
 ASCENSION NO. 555
 0715 HRS MDT

SIGNIFICANT LEVEL DATA

274001C555
 HOLLOMAN

WSTM SITE COORDINATES
 571739.21 FEET E
 362745.21 FEET N

TABLE VI (CONT)

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
70.0 61331.7	-65.0		
50.0 68225.8	-57.5		
45.2 69880.8	-55.0		
38.4 73765.1	-56.2		
33.0 76974.4	-52.5		

UPPER AIR DATA
2740010555
HOLLOMAN

STATION ALTITUDE 4126.59 FEET MSL
30 SEP. 76
ASCENSION NO. 555

0715 HRS MDT

WSTM SITE COORDINATES
571739.21 FEET E
362745.21 FEET N

TABLE VII

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
4126.6	878.8	8.9	62.0	1082.1	655.3	30.0	5.1	1.000275
4200.0	875.5	10.5	50.0	1072.5	657.3	27.7	5.3	1.000275
4400.0	870.1	15.2	54.6	1046.7	663.0	21.4	4.9	1.000276
4600.0	863.9	15.4	52.0	1035.1	664.3	15.0	4.9	1.000274
4800.0	857.7	16.0	50.7	1029.1	663.8	8.5	4.9	1.000271
5000.0	851.6	15.7	49.4	1023.1	663.4	2.3	5.3	1.000259
5200.0	845.5	15.5	48.8	1016.4	663.2	356.3	5.2	1.000266
5400.0	839.5	15.4	48.5	1009.5	663.1	350.8	5.4	1.000254
5600.0	833.5	15.3	48.2	1002.6	663.0	345.7	5.7	1.000262
5800.0	827.5	15.2	47.9	995.8	662.8	341.6	5.9	1.000250
6000.0	821.6	15.1	47.6	989.0	662.7	341.9	5.2	1.000258
6200.0	815.7	15.1	47.4	982.3	662.6	342.3	4.6	1.000256
6400.0	809.8	15.0	47.1	975.6	662.5	342.9	4.3	1.000254
6600.0	804.0	14.9	46.8	968.9	662.4	342.6	3.3	1.000252
6800.0	798.3	14.8	46.5	962.3	662.3	347.0	2.6	1.000250
7000.0	792.6	14.7	46.2	955.6	662.1	352.8	2.0	1.000248
7200.0	786.9	14.5	45.9	949.5	661.9	4.2	1.3	1.000245
7400.0	781.1	14.0	45.5	944.3	661.3	31.8	.8	1.000244
7600.0	775.5	13.5	45.2	939.1	660.8	65.9	.7	1.000242
7800.0	769.8	13.1	44.8	933.8	660.2	95.2	.9	1.000239
8000.0	764.2	12.6	44.4	928.6	659.6	112.4	1.2	1.000237
8200.0	758.7	12.2	44.1	923.4	659.1	122.1	1.6	1.000235
8400.0	753.1	11.7	43.7	918.3	658.5	129.9	2.3	1.000233
8600.0	747.7	11.2	43.3	913.2	657.9	136.9	2.5	1.000231
8800.0	742.2	10.8	42.9	908.1	657.4	141.7	3.3	1.000228
9000.0	736.8	10.3	42.6	903.0	656.8	145.2	3.5	1.000226
9200.0	731.5	9.9	42.2	898.0	656.3	147.8	4.3	1.000224
9400.0	726.2	9.4	41.8	893.0	655.7	145.2	4.0	1.000222
9600.0	720.9	8.9	41.5	888.0	655.1	142.1	4.3	1.000220
9800.0	715.6	8.5	41.1	883.0	654.6	138.9	4.0	1.000219

WSTM SITE COORDINATES
571739.24 FEET E
362745.21 FEET N

UPPER AIR DATA
2740010555
HOLLOMAN

STATION ALTITUDE 4126.59 FEET MSL
30 SEP. 75 0715 HRS MDT

ASCENSION NO. 555

TABLE VII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
							DIRECTION DEGREES(TN)	SPEED KNOTS	
10000.0	710.4	8.0	-4.5	40.7	878.1	654.0	135.8	4.0	1.000217
10200.0	705.7	7.6	-5.0	40.4	873.2	653.5	129.0	3.4	1.000215
10400.0	700.1	7.1	-5.5	40.0	868.4	652.9	114.5	2.5	1.000213
10600.0	694.9	6.8	-6.0	39.5	863.1	652.5	88.1	1.9	1.000211
10800.0	689.8	6.4	-6.5	39.0	857.8	652.0	53.3	1.9	1.000209
11000.0	684.7	6.0	-7.0	38.5	852.6	651.6	30.2	2.2	1.000208
11200.0	679.6	5.7	-7.5	38.1	847.4	651.2	16.1	2.6	1.000206
11400.0	674.5	5.3	-8.0	37.6	842.2	650.7	5.6	3.1	1.000204
11600.0	669.5	5.0	-8.4	37.1	837.0	650.3	357.9	3.6	1.000202
11800.0	664.6	4.6	-8.9	36.6	831.9	649.9	353.4	4.2	1.000201
12000.0	659.6	4.3	-9.4	36.1	826.8	649.5	353.1	3.6	1.000199
12200.0	654.7	3.9	-9.9	35.6	821.8	649.0	352.9	3.3	1.000197
12400.0	649.9	3.6	-10.4	35.1	816.8	648.6	352.6	3.0	1.000196
12600.0	645.0	3.4	-11.2	33.3	811.4	648.1	352.2	2.7	1.000194
12800.0	640.2	3.2	-12.2	31.2	805.9	648.1	354.3	1.3	1.000191
13000.0	635.4	3.0	-13.2	29.1	800.5	647.8	139.1	.2	1.000189
13200.0	630.6	2.8	-14.3	26.9	795.1	647.6	166.8	1.6	1.000187
13400.0	625.9	2.6	-15.5	24.8	789.9	647.3	158.4	3.1	1.000185
13600.0	621.2	2.5	-16.7	22.6	784.4	647.1	165.8	4.5	1.000183
13800.0	616.6	2.8	-17.0	21.6	777.7	647.4	165.4	5.9	1.000181
14000.0	611.9	3.3	-16.8	21.1	770.4	648.1	164.6	7.2	1.000180
14200.0	607.4	3.1	-16.7	21.6	765.1	647.9	164.0	8.6	1.000179
14400.0	602.8	2.8	-16.6	22.4	760.3	647.4	167.5	8.4	1.000178
14600.0	598.7	2.4	-16.5	23.2	755.6	647.0	173.1	7.7	1.000177
14800.0	593.8	2.0	-16.4	23.9	750.9	646.6	179.9	7.1	1.000175
15000.0	589.7	1.5	-16.7	24.2	746.6	646.0	187.7	6.6	1.000175
15200.0	584.8	1.0	-17.0	24.5	742.4	645.4	190.6	7.6	1.000173
15400.0	580.4	.5	-17.3	24.7	738.1	644.8	191.1	9.1	1.000172
15600.0	576.0	-.0	-17.7	25.0	733.9	644.1	191.5	10.6	1.000171
15800.0	571.6	-.6	-18.0	25.3	729.8	643.5	191.9	12.0	1.000170

UPPER AIR DATA

2740001C555
HOLLoman

WSTM SITE COORDINATES
571739.24 FEET E
362745.21 FEET N

STATION ALTITUDE 4126.59 FEET MSL
30 SEP. 75
ASCENSION NO. 555
0715 HRS MDT

TABLE VII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
16000.0	567.2	-1.1	25.5	725.6	642.9	189.9	12.8	1.000153
16200.0	562.9	-1.6	25.8	721.5	642.3	184.5	12.6	1.000168
16400.0	559.7	-2.1	26.0	717.4	641.6	179.1	12.5	1.000157
16600.0	554.4	-2.7	26.3	713.4	641.0	173.6	12.5	1.000166
16800.0	550.2	-3.2	26.5	709.3	640.4	168.1	12.6	1.000155
17000.0	546.0	-3.7	26.8	705.3	639.8	161.9	9.8	1.000164
17200.0	541.9	-4.2	26.9	701.1	639.2	150.7	7.1	1.000153
17400.0	537.7	-4.4	26.6	696.4	638.9	128.4	5.0	1.000151
17600.0	533.5	-4.7	26.3	691.7	638.6	90.3	4.4	1.000160
17800.0	529.4	-4.9	26.0	687.0	638.3	65.3	4.9	1.000159
18000.0	525.3	-5.2	25.7	682.4	638.0	49.8	5.9	1.000158
18200.0	521.3	-5.4	25.4	677.9	637.7	39.2	7.1	1.000155
18400.0	517.3	-5.7	25.1	673.2	637.4	31.9	8.6	1.000155
18600.0	513.3	-6.2	25.6	669.4	636.7	26.9	9.6	1.000154
18800.0	509.3	-6.8	26.3	665.7	636.0	22.8	10.3	1.000153
19000.0	505.3	-7.5	27.0	662.1	635.2	19.2	11.0	1.000153
19200.0	501.4	-8.1	27.7	658.5	634.5	16.2	11.8	1.000152
19400.0	497.5	-8.5	27.9	654.4	634.0	12.6	12.1	1.000151
19600.0	493.6	-8.8	27.7	650.1	633.6	8.3	12.0	1.000150
19800.0	489.7	-9.1	27.5	645.7	633.2	3.9	12.0	1.000148
20000.0	485.8	-9.5	27.3	641.5	632.8	359.4	12.0	1.000147
20200.0	482.0	-9.8	27.1	637.2	632.4	356.4	11.8	1.000145
20400.0	478.2	-10.1	26.9	633.0	632.0	355.2	11.1	1.000145
20600.0	474.5	-10.4	25.7	629.9	631.6	353.8	10.5	1.000144
20800.0	470.8	-10.7	26.5	624.6	631.2	352.2	9.9	1.000143
21000.0	467.1	-11.1	26.3	620.5	630.9	351.2	9.2	1.000142
21200.0	463.4	-11.4	26.1	616.4	630.5	351.7	8.2	1.000141
21400.0	459.7	-11.8	26.1	612.5	630.0	352.2	7.2	1.000140
21600.0	456.1	-12.4	26.3	608.9	629.3	352.9	6.2	1.000139
21800.0	452.4	-12.9	26.5	605.3	628.6	353.8	5.3	1.000139

STATION ALTITUDE 4126.59 FEET MSL
30 SEP. 76
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UPPER AIR DATA
2740010555
HOLLOMAN

WSM SITE COORDINATES
571739.24 FEET E
362745.21 FEET N

0715 HRS MDT

TABLE VII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
							DIRECTION DEGREES(TN)	SPEED KNOTS	
22000.0	448.8	-13.5	-28.5	26.8	601.8	627.9	354.8	5.1	1.000137
22200.0	445.2	-14.0	-28.9	27.1	598.3	627.3	355.8	4.9	1.000135
22400.0	441.7	-14.6	-29.3	27.3	594.8	626.6	357.0	4.7	1.000136
22600.0	438.2	-15.1	-29.6	27.6	591.4	625.9	358.2	4.5	1.000135
22800.0	434.7	-15.7	-30.0	27.8	587.9	625.2	350.9	5.0	1.000134
23000.0	431.2	-16.2	-30.5	27.9	584.4	624.6	343.8	5.9	1.000133
23200.0	427.7	-16.6	-30.9	27.6	580.6	624.1	338.5	6.8	1.000132
23400.0	424.2	-17.0	-31.4	27.3	576.8	623.6	334.5	7.8	1.000131
23600.0	420.8	-17.4	-31.9	27.0	573.1	623.1	329.2	8.7	1.000130
23800.0	417.4	-17.9	-32.4	26.6	569.4	622.6	322.8	9.7	1.000129
24000.0	414.0	-18.3	-32.8	26.3	565.7	622.1	317.7	10.6	1.000128
24200.0	410.7	-18.7	-33.3	26.0	562.0	621.6	313.5	12.3	1.000127
24400.0	407.3	-19.1	-33.8	25.7	558.3	621.1	309.9	13.1	1.000126
24600.0	404.0	-19.5	-34.3	25.4	554.7	620.6	306.1	13.4	1.000125
24800.0	400.8	-19.9	-34.8	25.1	551.1	620.1	302.5	13.7	1.000125
25000.0	397.4	-20.4	-35.2	24.1	547.5	619.5	299.0	14.1	1.000124
25200.0	394.1	-20.9	-35.6	25.3	544.2	618.8	295.8	14.6	1.000123
25400.0	390.8	-21.4	-36.0	25.4	540.7	618.2	295.8	15.1	1.000122
25600.0	387.6	-21.9	-36.3	25.6	537.3	617.5	296.5	15.6	1.000121
25800.0	384.4	-22.5	-36.7	25.7	534.0	616.9	297.1	16.1	1.000120
26000.0	381.1	-23.0	-37.1	25.8	530.6	616.3	297.7	16.7	1.000120
26200.0	378.0	-23.5	-37.5	26.0	527.3	615.6	298.5	16.9	1.000119
26400.0	374.9	-24.0	-37.9	26.1	524.0	615.0	299.6	16.9	1.000118
26600.0	371.7	-24.5	-38.2	26.3	520.7	614.4	300.7	16.8	1.000117
26800.0	369.6	-25.0	-38.7	26.4	517.4	613.7	301.8	16.8	1.000117
27000.0	365.5	-25.5	-39.1	26.6	514.2	613.1	302.8	16.7	1.000116
27200.0	362.5	-26.1	-39.5	26.7	510.9	612.4	303.0	16.2	1.000115
27400.0	359.5	-26.6	-39.9	26.9	507.7	611.8	303.2	15.7	1.000114
27600.0	356.5	-27.1	-40.3	27.0	504.5	611.2	303.4	15.2	1.000114
27800.0	353.5	-27.6	-40.7	27.2	501.4	610.5	303.6	14.7	1.000113

STATION ALTITUDE 4126.59 FEET MSL
30 SEP. 75
ASCENSION NO. 555

UPPER AIR DATA
2740010555
HOLLoman

WSTM SITE COORDINATES
571739.24 FEET E
312745.21 FEET N

TABLE VII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			KNOTS	KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	
28000.0	350.5	-28.1	-41.1	27.3	499.2	609.9		302.5	14.8	1.000112
28200.0	347.6	-28.6	-41.5	27.5	495.2	609.2		300.7	15.4	1.000111
28400.0	344.7	-29.1	-41.9	27.6	492.1	608.6		299.0	16.1	1.000111
28600.0	341.8	-29.7	-42.3	27.8	489.0	608.0		297.5	16.7	1.000110
28800.0	339.0	-30.2	-42.7	27.9	486.0	607.3		296.0	17.3	1.000109
29000.0	335.1	-30.6	-43.1	27.9	482.8	606.7		289.7	18.5	1.000108
29200.0	333.2	-31.0	-43.5	27.8	479.4	606.2		284.2	19.9	1.000108
29400.0	330.4	-31.4	-43.9	27.7	475.1	605.7		279.5	21.5	1.000107
29600.0	327.5	-31.8	-44.2	27.5	472.8	605.2		275.5	23.1	1.000106
29800.0	324.7	-32.2	-44.7	27.4	469.5	604.7		271.9	24.5	1.000105
30000.0	321.9	-32.6	-45.1	27.2	466.2	604.2		268.7	25.6	1.000105
30200.0	319.1	-33.0	-45.5	27.1	463.0	603.7		265.8	26.8	1.000104
30400.0	316.4	-33.4	-45.9	26.9	459.8	603.2		263.1	28.0	1.000103
30600.0	313.7	-33.8	-46.3	26.8	456.5	602.7		260.7	29.3	1.000102
30800.0	311.0	-34.2	-46.7	26.6	453.4	602.2		259.0	29.8	1.000102
31000.0	308.3	-34.6	-47.1	26.5	450.2	601.7		257.4	30.4	1.000101
31200.0	305.6	-35.0	-47.5	26.3	447.1	601.2		255.9	31.0	1.000100
31400.0	303.0	-35.4	-47.9	26.2	444.0	600.7		254.4	31.7	1.000099
31600.0	300.4	-35.8	-48.3	26.0	440.9	600.2		253.1	32.1	1.000099
31800.0	297.8	-36.2	-48.8	26.0	438.1	599.5		251.9	32.3	1.000098
32000.0	295.2	-36.6	-49.3	26.0	435.3	598.8		250.8	32.5	1.000097
32200.0	292.6	-37.0	-50.3	24.6**	432.4	598.1		249.7	32.7	1.000097
32400.0	290.0	-37.4	-51.3	22.9**	429.5	597.4		248.6	32.9	1.000096
32600.0	287.4	-37.8	-52.4	21.3**	425.7	596.7		248.9	32.4	1.000095
32800.0	284.8	-38.2	-53.6	19.6**	422.9	596.0		249.2	31.9	1.000095
33000.0	282.3	-38.6	-54.7	18.0**	421.1	595.3		249.5	31.4	1.000094
33200.0	279.8	-39.0	-56.0	16.3**	418.3	594.7		249.8	30.9	1.000093
33400.0	277.3	-39.4	-57.3	14.7**	415.5	594.0		250.6	30.3	1.000093
33600.0	274.8	-40.8	-58.7	13.0**	412.8	593.3		251.9	29.7	1.000092
33800.0	272.4	-41.8	-60.2	11.3**	410.1	592.6		253.3	27.9	1.000091

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4125.59 FEET MSL
30 SEP. 76
ASCENSION NO. 555

UPPER AIR DATA
2740010555
HOLLDMAN

WSIM SITE COORDINATES
571739.24 FEET E
362745.21 FEET N

TABLE VII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (TN)	SPEED KNOTS	
34000.0	269.9	-42.3	9.7**	407.4	591.9	254.8	26.9	1.000091
34200.0	267.5	-42.9	9.0**	404.7	591.2	255.4	26.3	1.000090
34400.0	265.2	-43.4	6.4**	402.1	590.5	257.1	26.4	1.000090
34600.0	262.8	-44.0	4.7**	399.4	589.8	257.9	26.9	1.000089
34800.0	260.5	-44.5	3.1**	396.8	589.1	258.6	27.3	1.000088
35000.0	258.1	-45.0	1.4**	394.2	588.4	259.3	27.7	1.000089
35200.0	255.8	-45.5		391.5	587.8	260.5	28.5	1.000087
35400.0	253.5	-45.6		388.2	587.6	262.2	29.9	1.000085
35600.0	251.2	-45.7		384.8	587.5	263.9	31.3	1.000086
35800.0	248.9	-46.0		381.7	587.2	265.3	32.7	1.000085
36000.0	246.6	-46.3		378.7	586.8	266.7	34.1	1.000084
36200.0	244.3	-46.6		375.8	586.3	268.9	35.5	1.000084
36400.0	242.1	-47.0		372.8	585.9	271.3	36.9	1.000083
36600.0	239.8	-47.3		369.9	585.5	273.5	38.4	1.000082
36800.0	237.6	-47.6		367.1	585.0	275.5	39.9	1.000082
37000.0	235.4	-48.0		364.2	584.6	277.1	41.5	1.000081
37200.0	233.2	-48.3		361.4	584.1	277.6	43.4	1.000080
37400.0	231.1	-48.7		358.6	583.7	278.1	45.3	1.000080
37600.0	229.0	-49.0		355.8	583.3	278.5	47.2	1.000079
37800.0	226.8	-49.3		353.1	582.8	278.9	49.1	1.000079
38000.0	224.7	-49.7		350.3	582.4	278.9	50.9	1.000078
38200.0	222.7	-50.0		347.6	582.0	278.4	52.6	1.000077
38400.0	220.6	-50.3		344.9	581.5	277.9	54.3	1.000077
38600.0	218.6	-50.7		342.3	581.1	277.5	56.0	1.000076
38800.0	216.5	-51.0		339.6	580.6	277.1	57.7	1.000075
39000.0	214.5	-51.4		337.0	580.2	276.0	59.9	1.000075
39200.0	212.6	-51.7		334.4	579.8	274.9	62.2	1.000074
39400.0	210.6	-52.0		331.8	579.3	273.9	64.5	1.000074
39600.0	208.7	-52.4		329.2	578.9	273.0	66.9	1.000073
39800.0	206.7	-52.7		326.7	578.4	272.1	69.3	1.000073

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4125.59 FEET MSL
 30 SEP. 76
 ASCENSION NO. 555

UPPER AIR DATA
 2740010555
 HOLLOWMAN

WSTM SITE COORDINATES
 571739.24 FEET E
 362745.21 FEET N

0715 HRS MDT

TABLE VII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
40000.0	204.8	-53.0		324.1	578.0	271.1	71.1	1.000072
40200.0	202.9	-53.4		321.6	577.5	270.1	72.7	1.000072
40400.0	201.0	-53.7		319.2	577.1	269.1	74.5	1.000071
40600.0	199.2	-54.1		316.7	576.6	268.1	76.2	1.000071
40800.0	197.2	-54.5		314.4	576.0	267.3	77.9	1.000070
41000.0	195.3	-55.0		312.0	575.4	266.4	78.6	1.000069
41200.0	193.5	-55.5		309.7	574.7	265.5	79.1	1.000059
41400.0	191.6	-56.0		307.3	574.1	264.6	79.7	1.000068
41600.0	189.8	-56.4		305.0	573.5	263.8	80.2	1.000058
41800.0	187.9	-56.9		302.8	572.9	262.9	80.8	1.000067
42000.0	186.1	-57.4		300.5	572.3	262.5	81.3	1.000057
42200.0	184.3	-57.8		298.3	571.7	262.1	81.7	1.000066
42400.0	182.6	-58.3		296.0	571.0	261.8	82.2	1.000055
42600.0	180.8	-58.8		293.8	570.4	261.4	82.7	1.000065
42800.0	179.1	-59.2		291.6	569.8	261.0	83.2	1.000055
43000.0	177.4	-59.7		289.5	569.2	260.7	83.4	1.000064
43200.0	175.7	-60.2		287.3	568.6	260.3	83.7	1.000054
43400.0	174.0	-60.6		285.2	567.9	260.0	83.9	1.000064
43600.0	172.3	-61.1		283.0	567.3	259.6	84.2	1.000053
43800.0	170.6	-61.6		280.9	566.7	259.3	84.4	1.000063
44000.0	169.0	-62.0		278.9	566.1	258.9	83.8	1.000052
44200.0	167.4	-62.5		276.8	565.4	258.5	83.2	1.000062
44400.0	165.8	-63.0		274.7	564.8	258.2	82.6	1.000051
44600.0	164.2	-63.4		272.7	564.2	257.8	82.0	1.000061
44800.0	162.5	-63.9		270.6	563.6	257.6	81.3	1.000060
45000.0	160.9	-64.3		268.5	562.9	258.0	90.7	1.000050
45200.0	159.3	-64.8		266.4	562.3	258.3	80.1	1.000059
45400.0	157.7	-65.3		264.3	561.7	258.7	79.5	1.000059
45600.0	156.2	-65.7		262.2	561.1	259.0	78.8	1.000058
45800.0	154.6	-66.2		260.3	560.4	259.6	78.6	1.000058

UPPER AIR DATA
2740010555
HOLLOWMAN

STATION ALTITUDE 4126.59 FEET MSL
30 SEP. 76
ASCENSION NO. 555

WSIM SITE COORDINATES
571739.24 FEET E
362745.21 FEET N

0715 HRS MDT

TABLE VII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (TN)	SPEED KNOTS	
46000.0	153.1	-66.7		258.2	559.8	260.2	78.5	1.000058
46200.0	151.6	-67.1		256.3	559.2	260.8	78.4	1.000057
46400.0	150.1	-67.6		254.7	558.6	261.4	78.3	1.000057
46600.0	148.5	-67.9		252.1	558.1	262.1	78.2	1.000055
46800.0	147.0	-68.2		250.0	557.7	262.9	77.6	1.000056
47000.0	145.5	-68.6		247.9	557.2	263.9	76.7	1.000055
47200.0	144.1	-68.9		245.7	556.8	264.8	75.9	1.000055
47400.0	142.6	-69.2		243.6	556.3	265.7	75.0	1.000054
47500.0	141.2	-69.6		241.5	555.9	265.7	74.2	1.000054
47800.0	139.7	-69.9		239.5	555.4	267.9	73.0	1.000053
48000.0	138.3	-70.2		237.4	555.0	269.1	71.5	1.000053
48200.0	136.9	-70.5		235.4	554.5	270.5	70.0	1.000052
48400.0	135.5	-70.9		233.4	554.1	271.8	68.6	1.000052
48600.0	134.1	-71.2		231.4	553.6	273.3	67.2	1.000052
48800.0	132.8	-71.5		229.4	553.2	274.5	65.6	1.000051
49000.0	131.4	-71.8		227.5	552.7	275.5	63.6	1.000051
49200.0	130.1	-72.2		225.5	552.3	276.6	61.6	1.000050
49400.0	128.8	-72.7		223.8	551.6	277.8	59.6	1.000050
49500.0	127.4	-73.7		222.5	550.3	279.1	57.7	1.000050
49800.0	126.1	-74.6		221.3	548.9	280.3	55.6	1.000049
50000.0	124.8	-74.3		218.7	549.3	281.0	52.8	1.000049
50200.0	123.5	-74.0		216.0	549.8	281.9	50.0	1.000048
50400.0	122.3	-73.5		213.4	550.4	282.9	47.2	1.000048
50600.0	121.0	-73.2		210.8	550.9	283.9	44.4	1.000047
50800.0	119.7	-72.8		208.2	551.4	285.0	41.7	1.000045
51000.0	118.5	-72.7		206.0	551.5	283.3	40.6	1.000046
51200.0	117.3	-72.7		203.8	551.6	281.5	39.6	1.000045
51400.0	116.1	-72.6		201.7	551.7	279.6	38.5	1.000045
51600.0	114.9	-72.5		199.5	551.9	277.6	37.6	1.000044
51800.0	113.7	-72.5		197.4	551.9	275.4	36.6	1.000044

UPPER AIR DATA

STATION ALTITUDE 4126.59 FEET MSL
30 SEP. 75
ASCENSION NO. 555

WSTM SITE COORDINATES
571739.21 FEET E
382745.21 FEET N

2740010555
HOLLOMAN

0715 HRS MDT

TABLE VII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			KNOTS	KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	
52000.0	112.6	-72.4			195.3	552.0		275.4	35.5	1.000043
52200.0	111.4	-72.3			193.3	552.1		275.7	34.3	1.000043
52400.0	110.3	-72.3			191.2	552.1		276.0	33.1	1.000043
52600.0	109.1	-72.3			189.3	552.1		276.4	31.8	1.000042
52800.0	108.0	-72.3			187.3	552.1		276.8	30.6	1.000042
53000.0	106.9	-72.3			185.4	552.1		279.5	28.6	1.000041
53200.0	105.8	-72.3			183.5	552.1		283.9	26.3	1.000041
53400.0	104.7	-72.3			181.6	552.1		289.1	24.2	1.000040
53600.0	103.6	-72.3			179.8	552.1		295.2	22.4	1.000040
53800.0	102.6	-72.3			177.9	552.1		302.4	20.8	1.000040
54000.0	101.5	-72.3			176.1	552.1		307.9	19.8	1.000039
54200.0	100.5	-72.3			174.3	552.1		308.5	19.1	1.000039
54400.0	99.5	-72.2			172.5	552.2		309.3	18.5	1.000038
54600.0	98.4	-72.1			170.6	552.4		310.1	17.9	1.000038
54800.0	97.4	-72.0			168.8	552.5		311.0	17.3	1.000038
55000.0	96.4	-71.9			166.9	552.7		311.9	16.7	1.000037
55200.0	95.5	-71.8			165.1	552.9		313.5	16.2	1.000037
55400.0	94.5	-71.7			163.4	553.0		315.3	15.8	1.000036
55600.0	93.5	-71.6			161.6	553.1		317.1	15.3	1.000035
55800.0	92.6	-71.4			159.9	553.3		319.0	14.9	1.000036
56000.0	91.6	-71.3			158.1	553.5		321.1	14.5	1.000035
56200.0	90.7	-71.2			156.4	553.6		322.3	13.9	1.000035
56400.0	89.8	-71.1			154.8	553.8		322.4	13.0	1.000034
56600.0	88.8	-71.0			153.1	553.9		322.4	12.2	1.000034
56800.0	87.9	-70.9			151.4	554.1		322.5	11.4	1.000034
57000.0	87.0	-70.7			149.9	554.3		322.5	10.6	1.000033
57200.0	86.2	-70.6			148.2	554.4		322.6	9.7	1.000033
57400.0	85.3	-70.5			146.5	554.6		320.4	8.5	1.000033
57600.0	84.4	-70.4			145.0	554.7		316.6	7.2	1.000032
57800.0	83.6	-69.6			143.0	555.9		311.3	6.0	1.000032

STATION ALTITUDE 4126.59 FEET MSL
30 SEP. 76
ASCENSION NO. 555

UPPER AIR DATA
2740010555
HOLLICMAN

WSIM SITE COORDINATES
571739.24 FEET E
362745.21 FEET N

0715 HRS MDT

TABLE VII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			KNOTS	KNOTS	DIRECTION DEGREES(TN)	SPEED KNOTS	
59000.0	82.7	-68.8			141.0	556.8		303.2	4.8	1.000031
59200.0	81.9	-68.1			139.1	557.9		290.5	3.8	1.000031
59400.0	81.1	-67.7			137.4	558.4		271.6	3.1	1.000031
59600.0	80.3	-67.5			135.9	558.7		267.3	2.9	1.000030
59800.0	79.5	-67.3			134.5	558.9		262.1	2.6	1.000030
59000.0	78.7	-67.1			133.0	559.2		255.9	2.4	1.000030
59200.0	77.9	-66.9			131.6	559.4		248.4	2.2	1.000029
59400.0	77.1	-66.8			130.1	559.7		239.6	2.0	1.000029
59600.0	76.3	-66.5			128.7	559.9		230.3	2.0	1.000029
59800.0	75.6	-66.4			127.3	560.2		224.9	2.4	1.000028
60000.0	74.9	-66.2			126.0	560.4		221.1	2.8	1.000028
60200.0	74.1	-66.0			124.6	560.7		218.3	3.3	1.000028
60400.0	73.3	-65.9			123.2	560.9		216.1	3.7	1.000027
60600.0	72.6	-65.7			121.9	561.2		214.4	4.2	1.000027
60800.0	71.9	-65.5			120.6	561.4		217.9	4.4	1.000027
61000.0	71.2	-65.3			119.3	561.7		227.6	4.5	1.000027
61200.0	70.5	-65.1			118.0	561.9		236.7	4.7	1.000025
61400.0	69.8	-64.9			116.7	562.2		244.8	5.0	1.000026
61600.0	69.1	-64.7			115.5	562.5		251.8	5.4	1.000025
61800.0	68.4	-64.5			114.2	562.7		257.8	5.9	1.000025
62000.0	67.8	-64.3			113.0	563.0		265.7	5.9	1.000025
62200.0	67.1	-64.1			111.8	563.3		276.2	5.7	1.000025
62400.0	66.4	-63.8			110.6	563.6		287.2	5.6	1.000025
62600.0	65.8	-63.6			109.4	563.9		297.9	5.8	1.000024
62800.0	65.2	-63.4			108.2	564.2		307.7	6.2	1.000024
63000.0	64.5	-63.2			107.1	564.5		316.2	6.7	1.000024
63200.0	63.9	-63.0			105.9	564.8		320.8	6.2	1.000024
63400.0	63.3	-62.7			104.8	565.1		325.1	5.3	1.000023
63600.0	62.7	-62.5			103.6	565.4		331.1	4.5	1.000023
63800.0	62.1	-62.3			102.5	565.7		339.6	3.7	1.000023

UPPER AIR DATA

STATION ALTITUDE 4126.59 FEET MSL
30 SEP. 75 0715 HRS MDT
ASCENSION NO. 555

WSTM SITE COORDINATES
571739.21 FEET E
362745.21 FEET N

27400010555
HOLLOMAN

TABLE VII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
64000.0	61.5	-62.1		101.4	566.0	352.1	3.1	1.000023
64200.0	60.9	-61.9		100.3	566.3	9.9	2.7	1.000022
64400.0	60.3	-61.7		99.3	566.5	15.8	2.3	1.000022
64600.0	59.7	-61.4		98.2	566.8	16.7	1.1	1.000022
64800.0	59.1	-61.2		97.1	567.1	22.6	.3	1.000022
65000.0	58.5	-61.0		96.1	567.4	190.1	.5	1.000021
65200.0	58.0	-60.8		95.1	567.7	192.9	1.4	1.000021
65400.0	57.4	-60.6		94.1	568.0	193.5	2.2	1.000021
65600.0	56.8	-60.4		93.0	568.3	193.4	2.9	1.000021
65800.0	56.3	-60.1		92.0	568.6	193.0	3.5	1.000020
66000.0	55.7	-59.9		91.1	568.9	192.7	4.2	1.000020
66200.0	55.2	-59.7		90.1	569.2	192.5	4.6	1.000020
66400.0	54.7	-59.5		89.1	569.5	192.3	5.4	1.000020
66600.0	54.1	-59.3		88.2	569.7	192.2	6.0	1.000020
66800.0	53.5	-59.1		87.2	570.0	190.9	6.5	1.000019
67000.0	53.1	-58.8		86.3	570.3	187.8	6.6	1.000019
67200.0	52.6	-58.6		85.4	570.5	184.9	6.8	1.000019
67400.0	52.1	-58.4		84.4	570.9	182.2	7.0	1.000019
67600.0	51.6	-58.2		83.5	571.2	179.6	7.2	1.000019
67800.0	51.0	-58.0		82.6	571.5	177.2	7.4	1.000018
68000.0	50.6	-57.7		81.8	571.9	175.6	7.2	1.000018
68200.0	50.1	-57.5		80.9	572.1	176.1	6.3	1.000018
68400.0	49.6	-57.3		80.0	572.3	176.8	4.8	1.000018
68600.0	49.1	-57.2		79.2	572.5	178.0	3.6	1.000018
68800.0	48.6	-57.0		78.4	572.8	180.4	2.4	1.000017
69000.0	48.2	-56.8		77.5	573.0	189.0	1.2	1.000017
69200.0	47.7	-56.6		76.8	573.3	277.9	.3	1.000017
69400.0	47.3	-56.4		76.0	573.5	37.0	.9	1.000017
69600.0	46.8	-56.3		75.2	573.7	44.7	1.7	1.000017
69800.0	46.4	-56.1		74.4	574.0	40.9	2.7	1.000017

UPPER AIR DATA
2740010555
HOLLOMAN

STATION ALTITUDE 4126.59 FEET MSL
30 SEP. 76 0715 HRS MDT
ASCENSION NO. 555

WSM SITE COORDINATES
571739.24 FEET E
362745.21 FEET N

TABLE VII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
70000.0	45.9	-56.0		73.7	574.1	48.0	3.6	1.000016
70200.0	45.5	-56.0		73.0	574.1	48.5	4.5	1.000015
70400.0	45.1	-56.0		72.3	574.0	49.0	5.5	1.000016
70500.0	44.6	-56.0		71.6	574.0	52.5	5.2	1.000015
70800.0	44.2	-56.0		71.0	574.0	57.4	4.7	1.000016
71000.0	43.8	-56.1		70.3	574.0	63.2	4.3	1.000015
71200.0	43.4	-56.1		69.6	574.0	70.2	3.9	1.000015
71400.0	43.0	-56.1		69.0	574.0	78.5	3.6	1.000015
71600.0	42.6	-56.1		68.3	574.0	88.2	3.4	1.000015
71800.0	42.2	-56.1		67.7	574.0	91.3	3.0	1.000015
72000.0	41.9	-56.1		67.0	573.9	91.3	2.5	1.000015
72200.0	41.4	-56.1		66.4	573.9	91.3	2.1	1.000015
72400.0	41.0	-56.1		65.8	573.9	91.3	1.6	1.000015
72600.0	40.6	-56.1		65.2	573.9	91.3	1.1	1.000015
72800.0	40.2	-56.2		64.5	573.9	91.3	.7	1.000014
73000.0	39.8	-56.2		63.9	573.9	98.3	.8	1.000014
73200.0	39.4	-56.2		63.3	573.9	96.7	1.6	1.000014
73400.0	39.1	-56.2		62.7	573.8	92.9	2.4	1.000014
73600.0	38.7	-56.2		62.1	573.8	91.1	3.3	1.000014
73800.0	38.3	-56.2		61.5	573.9	90.0	4.1	1.000014
74000.0	38.0	-55.9		60.9	574.2	49.2	5.0	1.000014
74200.0	37.6	-55.7		60.3	574.5			1.000013
74400.0	37.3	-55.5		59.5	574.9			1.000013
74600.0	36.9	-55.7		59.0	575.1			1.000013
74800.0	36.6	-55.0		58.4	575.4			1.000013
75000.0	36.2	-54.8		57.8	575.6			1.000013
75200.0	35.9	-54.5		57.2	575.9			1.000013
75400.0	35.5	-54.4		56.6	576.2			1.000013
75600.0	35.2	-54.1		56.0	576.5			1.000012
75800.0	34.9	-53.9		55.4	576.8			1.000012

STATION ALTITUDE 4126.59 FEET MSL
 30 SEP. 76 0715 HRS MDT
 ASCENSION NO. 555

UPPER AIR DATA
 2740010555
 HOLLoman

WSTM SITE COORDINATES
 571739.24 FEET E
 362745.21 FEET N

TABLE VII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
76000.0	34.6	-53.7			54.9	577.1			1.000012
76200.0	34.2	-53.5			54.3	577.4			1.000012
76400.0	33.9	-53.2			53.7	577.7			1.000012
76600.0	33.6	-53.0			53.2	578.0			1.000012
76800.0	33.3	-52.8			52.6	578.3			1.000012

STATION ALTITUDE 4126.59 FEET MSL
30 SEP. 76 0715 HRS MDT
ASCENSION NO. 555

MANDATORY LEVELS
2740010555
HOLLOMAN

TABLE VIII

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5052.	15.6	4.9	49.	7	5.1
800.0	6738.	14.8	3.5	47.	345.8	2.9
750.0	8521.	11.4	-5	43.	134.8	2.3
700.0	10399.	7.1	-5.6	40.	114.1	2.5
650.0	12386.	3.6	-10.4	35.	352.8	3.0
600.0	14512.	2.5	-16.5	23.	170.8	8.0
550.0	16796.	-3.2	-19.7	27.	167.9	12.5
500.0	19250.	-8.3	-23.5	28.	15.2	12.1
450.0	21911.	-13.3	-28.3	27.	354.4	5.2
400.0	24813.	-20.0	-34.9	25.	301.7	13.8
350.0	28009.	-28.2	-41.2	27.	302.1	15.0
300.0	31578.	-35.9	-48.4	28.	252.9	32.1
250.0	35639.	-45.8			264.6	32.0
200.0	40427.	-53.9			268.6	75.4
175.0	43199.	-60.3			260.2	83.8
150.0	46298.	-67.6			261.4	78.3
125.0	49945.	-74.4			280.9	53.3
100.0	54145.	-72.3			308.8	18.9
80.0	58447.	-67.4			266.1	2.8
70.0	61142.	-65.0			241.7	4.9
60.0	64251.	-61.6			16.0	1.8
50.0	67994.	-57.5			176.1	5.9
40.0	72643.	-56.2			90.9	.4

STATION ALTITUDE 3951.45 FEET MSL
30 SEP. 76
ASCENSION NO. 17

SIGNIFICANT LEVEL DATA
2740550017
APACHE

TABLE IX

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
884.3 3951.4	8.0	3.7	74.0
873.3 4294.6	13.9	4.5	53.0
850.0 5048.7	17.6	4.9	43.0
741.3 8841.6	10.7	-3.0	38.0
700.0 10400.5	7.1	-7.7	34.0
675.3 11366.9	4.6	-6.6	44.0
666.3 11725.7	3.7	-4.0	57.0
657.8 12068.6	4.0	-15.2	23.0
595.8 14678.3	-2.9	-24.5	17.0
537.3 17370.0	-2.6	-24.2	17.0
500.0 19228.3	-7.5	-27.1	19.0
446.3 22102.9	-13.6	-32.7	18.0
400.0 24806.7	-20.3	-38.4	18.0
331.8 29261.8	-31.4	-47.3	19.0
300.0 31590.5	-35.4	-50.7	19.0
250.0 35639.2	-44.0		
200.0 40524.6	-52.4		
150.0 46460.0	-60.3		
122.3 50477.5	-72.4		
100.0 54401.5	-70.3		
70.0 61482.5	-65.1		
50.0 68384.9	-56.9		
42.8 71644.3	-56.1		
37.8 74257.1	-55.6		
32.3 77597.8	-51.8		
30.0 79180.2	-52.1		
20.0 87979.3	-46.1		
14.3 95395.6	-44.1		
10.0 103360.4	-43.1		
6.5 107004.2	-41.3		

STATION ALTITUDE 3651.40 FEET FSL
30 SEP. /6 0735 HRS MDT
ASCENSION NO. 17

UPPER AIR DATA
2740050017
APACHE

WSTM SITE COORDINATES
481768.66 FEET E
267476.59 FEET N

TABLE X

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CELSIUS				DIRECTION DEGREES (TN)	SPEED KNOTS	
3951.4	684.3	8.0	3.7	74.0	1092.0	654.3	0.0	0.0	1.000281
4000.0	882.7	8.8	3.9	71.0	1086.8	655.3	148.6	0.2	1.000281
4500.0	866.9	14.9	4.7	50.3	1044.5	662.4	148.6	2.8	1.000272
5000.0	851.5	17.4	4.9	43.6	1017.1	665.3	148.6	5.3	1.000266
5500.0	836.3	16.6	3.9	42.4	1001.1	664.6	148.6	7.9	1.000260
6000.0	821.3	15.9	2.9	41.7	986.5	663.5	143.8	9.8	1.000254
6500.0	806.6	15.0	1.9	41.1	972.1	662.3	139.8	11.4	1.000249
7000.0	792.2	14.1	.8	40.4	958.0	661.2	135.0	11.8	1.000243
7500.0	778.1	13.1	-2.2	39.8	944.0	660.1	130.9	11.8	1.000238
8000.0	764.2	12.2	-1.3	39.1	930.2	659.0	127.1	11.1	1.000233
8500.0	750.5	11.3	-2.3	38.5	916.7	657.9	126.5	10.5	1.000228
9000.0	737.0	10.3	-3.5	37.6	903.5	656.7	130.1	10.1	1.000224
9500.0	723.6	9.2	-5.0	36.3	890.8	655.3	130.3	8.7	1.000219
10000.0	710.4	8.0	-6.5	35.0	878.4	653.9	127.1	6.6	1.000214
10500.0	697.4	6.8	-7.5	35.0	866.1	652.5	113.3	3.6	1.000210
11000.0	684.6	5.5	-6.9	40.2	854.0	651.0	55.9	1.8	1.000208
11500.0	671.9	4.3	-5.5	48.8	841.9	649.6	16.8	2.6	1.000207
12000.0	659.5	3.9	-12.1	29.8	828.0	648.9	9.2	3.9	1.000196
12500.0	647.1	2.9	-16.7	22.0	816.0	647.5	12.1	5.2	1.000190
13000.0	635.0	1.5	-18.5	20.9	804.6	645.9	34.3	4.1	1.000186
13500.0	623.0	.2	-20.2	19.7	793.4	644.4	70.6	2.8	1.000183
14000.0	611.3	-1.1	-22.0	18.6	782.3	642.8	150.9	2.5	1.000180
14500.0	599.8	-2.4	-23.8	17.4	771.5	641.2	197.9	3.8	1.000176
15000.0	588.5	-2.9	-24.4	17.0	758.1	640.7	215.3	5.5	1.000173
15500.0	577.3	-2.8	-24.4	17.0	743.5	640.7	216.0	5.7	1.000170
16000.0	566.3	-2.8	-24.3	17.0	729.2	640.8	219.1	5.0	1.000167
16500.0	555.6	-2.7	-24.3	17.0	715.2	640.9	226.9	3.8	1.000164
17000.0	545.0	-2.6	-24.3	17.0	701.4	640.9	247.2	.6	1.000161
17500.0	534.6	-2.9	-24.4	17.1	688.8	640.6	34.7	2.9	1.000158
18000.0	524.4	-4.3	-25.2	17.7	679.0	639.0	31.7	6.3	1.000155

STATION ALTITUDE 3951.40 FEET ASL
 30 SEP. 76 0735 HRS MDT
 ASCENSION NO. 17

UPPER AIR DATA
 2740050017
 4PACNE

WSTM SITE COORDINATES
 481468.66 FEET E
 267476.59 FEET N

TABLE X (CONT)

GEOMETRIC ALTITUDE NSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
18500.0	514.3	-5.6	18.2	669.2	637.4	28.1	7.7	1.000153
19000.0	504.4	-6.9	18.8	659.7	635.8	23.3	8.0	1.000151
19500.0	494.7	-8.1	18.9	649.8	634.4	20.7	7.2	1.000149
20000.0	485.0	-9.1	18.7	639.6	633.1	17.3	6.4	1.000146
20500.0	475.5	-10.2	18.6	629.7	631.9	12.2	5.7	1.000143
21000.0	466.2	-11.3	18.4	619.9	630.6	2.4	4.1	1.000141
21500.0	457.1	-12.3	18.2	610.2	629.3	333.9	2.3	1.000138
22000.0	448.1	-13.4	18.0	600.8	628.0	293.3	1.1	1.000136
22500.0	439.2	-14.6	18.0	591.5	626.5	242.3	.9	1.000134
23000.0	430.4	-15.8	18.0	582.5	625.0	209.3	.6	1.000132
23500.0	421.7	-17.1	18.0	573.6	623.5	251.7	3.0	1.000129
24000.0	413.3	-18.3	18.0	564.8	622.0	258.4	5.5	1.000127
24500.0	405.0	-19.5	18.0	556.2	620.5	262.9	7.8	1.000125
25000.0	396.8	-20.8	18.0	547.6	618.9	264.5	7.8	1.000123
25500.0	388.5	-22.0	18.2	539.9	617.4	266.0	7.2	1.000121
26000.0	380.5	-23.3	18.3	530.3	615.9	272.2	9.9	1.000119
26500.0	372.6	-24.5	18.4	521.9	614.3	276.1	12.7	1.000117
27000.0	364.8	-25.8	18.5	513.7	612.8	279.2	15.7	1.000115
27500.0	357.3	-27.0	18.6	505.6	611.2	280.2	16.0	1.000113
28000.0	349.8	-28.3	18.7	497.6	609.7	280.8	15.0	1.000112
28500.0	342.6	-29.5	18.8	489.8	608.1	284.5	14.9	1.000110
29000.0	335.5	-30.7	18.9	482.1	606.6	286.4	15.0	1.000108
29500.0	328.4	-31.8	19.0	474.0	605.2	284.1	15.5	1.000106
30000.0	321.4	-32.7	19.0	465.5	604.2	278.1	17.5	1.000104
30500.0	314.5	-33.5	19.0	457.2	603.1	271.2	21.2	1.000102
31000.0	307.8	-34.4	19.0	449.0	602.0	266.1	23.6	1.000100
31500.0	301.2	-35.2	19.0	441.0	600.9	261.7	25.7	1.000099
32000.0	294.6	-36.3	17.1..	433.3	599.6	256.6	26.6	1.000097
32500.0	288.1	-37.4	14.8..	425.8	598.1	252.0	28.9	1.000095
33000.0	281.6	-38.6	12.5..	418.4	596.7	248.6	33.1	1.000093

.. AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

UPPER AIR DATA
270005Z017
APACHE

STATION ALTITUDE 3951.40 FEET MSL
30 SEP. 76
0735 HRS MDT

ASCENSION NO. 17

WSTH SITE COORDINATES
481464.66 FEET E
267476.59 FEET N

TABLE X (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
33500.0	275.6	-39.7	10.1.0	411.2	595.3	246.3	30.3	1.000092
34000.0	269.5	-40.8	7.8.0	434.1	593.8	244.4	30.6	1.000096
34500.0	263.6	-41.9	5.5.0	397.1	592.4	245.1	30.7	1.000089
35000.0	257.8	-43.1	3.2.0	393.3	591.0	247.2	37.3	1.000087
35500.0	252.1	-44.2	.9.0	383.6	589.5	251.2	36.3	1.000085
36000.0	246.4	-45.1		376.5	588.3	250.4	35.7	1.000084
36500.0	240.8	-45.9		369.2	587.3	261.8	37.3	1.000082
37000.0	235.3	-46.7		362.0	586.2	266.7	40.5	1.000081
37500.0	230.0	-47.5		355.0	585.2	270.2	45.0	1.000079
38000.0	224.7	-48.3		348.2	584.1	272.9	50.3	1.000078
38500.0	219.6	-49.1		341.5	583.1	271.6	55.0	1.000076
39000.0	214.6	-49.9		334.9	582.0	269.1	59.6	1.000075
39500.0	209.7	-50.7		328.4	581.0	267.9	64.0	1.000073
40000.0	204.9	-51.6		322.1	579.9	267.0	68.3	1.000072
40500.0	200.2	-52.4		315.9	578.9	266.6	71.9	1.000070
41000.0	195.4	-53.5		310.0	577.4	266.3	75.2	1.000069
41500.0	190.8	-54.7		304.2	575.8	263.9	76.8	1.000068
42000.0	186.2	-55.9		298.5	574.3	261.4	76.2	1.000066
42500.0	181.7	-57.0		292.9	572.7	260.0	78.3	1.000065
43000.0	177.4	-58.2		287.5	571.2	258.7	78.4	1.000064
43500.0	173.1	-59.4		282.1	569.6	257.6	78.0	1.000063
44000.0	169.0	-60.5		276.9	568.1	256.6	77.7	1.000062
44500.0	164.9	-61.7		271.8	566.5	255.4	78.0	1.000061
45000.0	161.0	-62.9		266.7	564.9	254.2	78.4	1.000059
45500.0	157.1	-64.1		261.8	563.3	253.6	78.7	1.000058
46000.0	153.4	-65.2		257.0	561.8	253.2	78.9	1.000057
46500.0	149.7	-66.4		252.2	560.2	255.6	78.0	1.000056
47000.0	145.9	-67.1		246.8	559.2	254.9	75.9	1.000055
47500.0	142.3	-67.9		241.5	558.2	264.0	75.2	1.000054
48000.0	138.7	-68.6		236.3	557.1	267.7	72.6	1.000053

.. AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3951.40 FEET MSL
30 SEP. 76
ASCENSION NO. 17

UPPER AIR DATA
27.0550017
APACHE

WSTM SITE COORDINATES
481468.66 FEET E
267476.59 FEET N

TABLE X (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ NETER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (TN) DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
4800.0	135.2	-69.4		231.2	556.1	271.4	70.0	1.000051
4900.0	131.8	-70.2		226.2	555.1	271.7	65.0	1.000050
4950.0	128.5	-70.9		221.4	554.0	272.1	60.1	1.000049
5000.0	125.3	-71.7		216.7	553.0	271.8	53.9	1.000048
5050.0	122.2	-72.4		212.0	552.0	271.2	47.4	1.000047
5100.0	119.1	-72.1		206.3	552.4	271.5	41.1	1.000046
5150.0	116.1	-71.9		200.8	552.7	272.7	35.1	1.000045
5200.0	113.1	-71.6		195.5	553.1	274.9	31.9	1.000044
5250.0	110.2	-71.3		190.3	553.5	277.6	31.9	1.000042
5300.0	107.5	-71.1		185.2	553.8	280.1	31.4	1.000041
5350.0	104.7	-70.8		180.3	554.2	281.5	29.5	1.000040
5400.0	102.1	-70.5		175.5	554.6	283.1	27.5	1.000039
5450.0	99.5	-70.2		170.8	555.0	287.3	23.0	1.000038
5500.0	97.0	-69.9		166.3	555.5	294.0	18.5	1.000037
5550.0	94.6	-69.5		161.8	556.0	300.6	16.4	1.000036
5600.0	92.3	-69.1		157.5	556.5	305.8	16.0	1.000035
5650.0	90.0	-68.8		153.3	557.0	310.4	15.1	1.000034
5700.0	87.7	-68.4		149.3	557.5	314.0	13.0	1.000033
5750.0	85.5	-68.0		145.3	558.0	316.4	11.0	1.000032
5800.0	83.4	-67.7		141.4	558.5	309.7	6.8	1.000032
5850.0	81.3	-67.3		137.7	559.0	279.9	3.3	1.000031
5900.0	79.3	-66.9		134.0	559.5	230.6	3.6	1.000030
5950.0	77.4	-66.6		130.4	560.0	209.4	5.5	1.000029
6000.0	75.4	-66.2		127.0	560.5	205.0	5.6	1.000028
6050.0	73.6	-65.8		123.6	561.0	207.6	4.0	1.000028
6100.0	71.7	-65.5		120.3	561.4	217.4	2.0	1.000027
6150.0	69.9	-65.1		117.1	562.0	277.4	1.2	1.000026
6200.0	68.3	-64.5		114.0	562.8	335.7	2.0	1.000025
6250.0	66.6	-63.9		110.9	563.6	346.3	2.8	1.000025
6300.0	65.0	-63.3		107.9	564.4	353.7	3.3	1.000024

STATION ALTITUDE 3951.40 FEET MSL
 30 SEP. 76
 ASCENSION NO. 17

UPPER AIR DATA
 2740050017
 SPACHE

WSTM SITE COORDINATES
 181468.66 FEET E
 267476.59 FEET N

TABLE X (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
63500.0	63.4	-62.7		105.0	565.2	1.6	3.9	1.000023
64000.0	61.9	-62.1		102.2	566.0	8.3	4.5	1.000023
64500.0	60.4	-61.5		99.5	566.7	20.6	4.5	1.000022
65000.0	59.0	-60.9		96.8	567.5	47.2	4.2	1.000022
65500.0	57.5	-60.3		94.2	568.3	76.1	4.6	1.000021
66000.0	56.2	-59.7		91.7	569.1	132.2	6.4	1.000020
66500.0	54.8	-59.1		89.2	569.9	152.4	11.0	1.000020
67000.0	53.5	-58.5		86.8	570.7	161.0	10.6	1.000019
67500.0	52.2	-58.0		84.5	571.5	172.1	8.8	1.000019
68000.0	50.9	-57.4		82.2	572.3	188.2	6.0	1.000018
68500.0	49.7	-56.9		80.1	572.9	244.4	3.1	1.000018
69000.0	48.6	-56.7		78.2	573.1	302.4	5.4	1.000017
69500.0	47.4	-56.6		76.3	573.3	295.9	5.4	1.000017
70000.0	46.3	-56.5		74.4	573.4	289.6	5.6	1.000017
70500.0	45.2	-56.4		72.6	573.6	288.6	4.6	1.000016
71000.0	44.1	-56.3		70.9	573.7	290.7	3.3	1.000016
71500.0	43.1	-56.1		69.2	573.9	298.2	2.0	1.000015
72000.0	42.1	-56.0		67.5	574.0	327.1	1.3	1.000015
72500.0	41.1	-55.9		65.9	574.2	17.8	1.3	1.000015
73000.0	40.1	-55.8		64.3	574.3	32.7	1.5	1.000014
73500.0	39.2	-55.7		62.8	574.4	41.6	1.7	1.000014
74000.0	38.3	-55.6		61.3	574.5	43.2	2.2	1.000014
74500.0	37.4	-55.3		59.8	575.0	36.6	3.1	1.000013
75000.0	36.5	-54.8		58.2	575.7	33.0	4.0	1.000013
75500.0	35.7	-54.2		56.7	576.5	44.4	5.4	1.000013
76000.0	34.8	-53.6		55.3	577.2	56.6	7.5	1.000012
76500.0	34.0	-53.0		53.8	578.0	63.3	9.3	1.000012
77000.0	33.2	-52.5		52.4	578.7	70.2	12.8	1.000012
77500.0	32.4	-51.9		51.1	579.5	74.6	16.0	1.000011
78000.0	31.7	-51.9		49.9	579.5	77.6	18.7	1.000011

UPPER AIR DATA
2740050017
APACHE

STATION ALTITUDE 3951.40 FEET ASL
30 SEP. 76
0735 HRS MDT

ASCENSION NO. 17

WSTN SITE COORDINATES
481468.66 FEET E
267476.59 FEET N

TABLE X (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY CM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
76500.0	31.0	-52.0		40.6	579.4	79.9	18.1	1.000011
79000.0	30.3	-52.1		47.7	579.3	82.5	17.6	1.000011
79500.0	29.6	-51.9		46.5	579.5	86.5	16.8	1.000010
80000.0	28.9	-51.5		45.4	579.9	100.0	16.1	1.000010
80500.0	28.2	-51.2		44.3	580.4	112.1	16.0	1.000010
81000.0	27.6	-50.9		43.2	580.8	116.2	16.2	1.000010
81500.0	27.0	-50.5		42.2	581.3	116.1	16.2	1.000009
82000.0	26.3	-50.2		41.2	581.7	116.1	16.3	1.000009
82500.0	25.7	-49.8		40.2	582.2	113.1	15.7	1.000009
83000.0	25.2	-49.5		39.2	582.6	109.0	15.0	1.000009
83500.0	24.6	-49.2		38.2	583.1	104.6	14.3	1.000009
84000.0	24.0	-48.8		37.3	583.5	108.1	12.2	1.000008
84500.0	23.5	-48.5		36.4	583.9	115.0	10.0	1.000008
85000.0	22.9	-48.1		35.5	584.4	125.6	7.9	1.000008
85500.0	22.4	-47.8		34.7	584.8	129.8	7.1	1.000008
86000.0	21.9	-47.4		33.8	585.3	134.2	6.4	1.000008
86500.0	21.4	-47.1		33.0	585.7	139.4	5.7	1.000007
87000.0	20.9	-46.8		32.2	586.2	147.7	6.5	1.000007
87500.0	20.4	-46.4		31.4	586.6	119.7	7.5	1.000007
88000.0	20.0	-46.1		30.7	587.0	112.6	8.5	1.000007
88500.0	19.5	-46.0		30.0	587.2	113.0	8.3	1.000007
89000.0	19.1	-45.8		29.3	587.4	113.5	8.2	1.000007
89500.0	18.7	-45.7		28.6	587.6	114.1	8.0	1.000006
90000.0	18.3	-45.6		27.9	587.7	115.9	7.6	1.000006
90500.0	17.8	-45.4		27.3	587.9	117.9	7.2	1.000006
91000.0	17.4	-45.3		26.7	588.1	119.0	6.7	1.000006
91500.0	17.1	-45.2		26.1	588.2	112.1	5.2	1.000006
92000.0	16.7	-45.0		25.5	588.4	99.9	3.9	1.000006
92500.0	16.3	-44.9		24.9	588.6	79.9	3.0	1.000006
93000.0	15.9	-44.7		24.3	588.8	67.0	3.2	1.000005

UPPER AIR DATA
270005-017
APACHE

STATION ALTITUDE 3951.40 FEET MSL
30 SEP. 76
ASCENSION NO. 17
0735 HRS MDT

"STN SITE COORDINATES
481768.66 FEET E
267476.59 FEET N

TABLE X (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES	REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
93500.0	15.6	-44.6		23.7	588.9	55.9	3.5	1.000005
94000.0	15.2	-44.5		23.2	589.1	47.7	3.6	1.000005
94500.0	14.9	-44.3		22.7	589.3	42.3	2.7	1.000005
95000.0	14.6	-44.2		22.2	589.5	31.8	1.9	1.000005
95500.0	14.2	-44.1		21.6	589.6	10.6	1.3	1.000005
96000.0	13.9	-44.0		21.2	589.7	355.9	1.5	1.000005
96500.0	13.6	-44.0		20.7	589.8	345.0	1.8	1.000005
97000.0	13.3	-43.9		20.2	589.9	337.2	2.1	1.000005
97500.0	13.0	-43.8		19.8	589.9	356.6	2.1	1.000004
98000.0	12.7	-43.8		19.3	590.0	21.4	2.3	1.000004
98500.0	12.4	-43.7		18.9	590.1	38.9	2.8	1.000004
99000.0	12.2	-43.6		18.5	590.2	45.5	3.3	1.000004
99500.0	11.9	-43.6		18.0	590.3	43.6	3.2	1.000004
100000.0	11.6	-43.5		17.6	590.3	41.6	3.1	1.000004
100500.0	11.4	-43.5		17.2	590.4	39.6	3.1	1.000004
101000.0	11.1	-43.4		16.9	590.5	62.0	3.4	1.000004
101500.0	10.9	-43.3		16.5	590.6	78.7	4.1	1.000004
102000.0	10.6	-43.3		16.1	590.7	89.7	5.1	1.000004
102500.0	10.4	-43.2		15.7	590.8	77.7	6.5	1.000004
103000.0	10.2	-43.1		15.4	590.8	61.1	8.3	1.000003
103500.0	9.9	-43.0		15.0	591.0	51.9	11.6	1.000003
104000.0	9.7	-42.8		14.7	591.3			1.000003
104500.0	9.5	-42.5		14.4	591.6			1.000003
105000.0	9.3	-42.3		14.0	591.9			1.000003
105500.0	9.1	-42.0		13.7	592.2			1.000003
106000.0	8.9	-41.8		13.4	592.6			1.000003
106500.0	8.7	-41.5		13.1	592.9			1.000003
107000.0	8.5	-41.3		12.8	593.2			1.000003

STATION ALTITUDE 3951.42 FEET HSL
30 SEP. 76
ASCENSION NO. 17

MANDATORY LEVELS
274005-017
APACHE

WSTN SITE COORDINATES
441468.66 FEET E
267476.59 FEET N

TABLE XI

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS	
850.0	5047.	17.6	4.9	43.	148.6	5.6	
800.0	6738.	14.5	1.4	41.	137.5	11.5	
750.0	8518.	11.3	-2.3	36.	126.6	10.5	
700.0	10394.	7.1	-7.7	34.	117.8	4.2	
650.0	12378.	3.2	-16.3	22.	11.5	4.9	
600.0	14463.	-2.4	-23.8	17.	197.5	3.7	
550.0	16745.	-2.7	-24.3	17.	230.4	2.3	
500.0	19208.	-7.5	-27.1	19.	22.1	7.7	
450.0	21870.	-13.2	-32.3	16.	307.4	1.3	
400.0	24773.	-20.3	-38.4	18.	264.0	8.1	
350.0	27968.	-28.2	-44.7	19.	289.8	15.0	
300.0	31538.	-35.4	-50.7	19.	260.6	25.9	
250.0	35623.	-44.5			253.1	36.0	
200.0	40440.	-52.4			266.6	72.0	
175.0	43232.	-58.9			258.0	78.1	
150.0	46351.	-66.3			255.2	78.2	
125.0	49928.	-71.7			271.6	53.3	
100.0	54254.	-70.3			286.2	24.0	
50.0	58638.	-67.0			245.6	3.0	
70.0	61296.	-65.1			272.8	1.2	
60.0	64405.	-61.3			25.8	4.3	
50.0	68155.	-56.9			223.2	3.4	
40.0	72405.	-55.6			33.9	1.5	
30.0	76873.	-52.1			83.4	17.4	
25.0	82770.	-49.4			108.2	14.6	
20.0	87603.	-46.1			112.6	8.5	
15.0	93904.	-44.4			44.5	3.0	
10.0	102645.	-43.1			54.1	10.8	

.. AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

WSTM SITE COORDINATES
4F0491.60 FEET E
4E4023.05 FEET N

SIGNIFICANT LEVEL DATA
2740030292
JALLEN

STATION ALTITUDE 4051.00 FEET MSL
30 SEP. 76 0815 HRS MDT
ASCENSION NO. 292

TABLE XII

PRESSURE GEOMETRIC ALTITUDE MIL. IBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
881.2	14.8	6.6	58.0
970.0	14.9	4.0	48.0
850.0	15.5	3.0	43.0
832.0	16.0	2.4	40.0
784.0	14.5	-0.4	36.0
700.0	6.5	-7.5	36.0
662.0	4.5	-12.0	29.0
507.0	2.9	-19.0	18.0
576.0	1.1	-19.3	20.0
500.0	-7.2	-25.2	22.0
480.0	-9.3	-27.0	22.0
471.0	-9.3	-28.0	20.0
411.0	-18.6	-35.0	22.0
400.0	-19.5	-35.8	22.0
393.0	-20.0	-36.6	21.0
331.0	-30.6	-45.3	22.0
303.0	-34.7	-48.4	23.0
293.0	-36.4	-49.9	23.0
263.0	-43.0		
250.0	-44.9		
237.0	-47.3		
219.0	-49.7		
208.0	-50.3		
200.0	-52.3		
170.0	-50.6		
156.0	-64.4		
150.0	-55.6		
147.0	-67.1		
124.0	-72.8		
121.0	-69.7		

STATION ALTITUDE 4051.00 FEET MSL
 30 SEP. 75
 ASCENSION NO. 292

SIGNIFICANT LEVEL DATA
 27400030292
 JALLEN

WSTM SITE COORDINATES
 450491.50 FEET E
 464023.05 FEET N

TABLE XII (CONT)

PRESSURE GEOMETRIC		TEMPERATURE		REL. HUM.
ALTITUDE		AIR DEWPOINT		
MILLIBARS	MSL FEET	DEGREES	CENTIGRADE	PERCENT
113.0	52107.2	-71.5		
100.0	54494.6	-70.4		
82.0	58391.3	-69.5		
78.0	59384.5	-65.9		
70.0	61555.8	-63.4		
63.0	63709.3	-62.1		
50.0	68493.3	-55.7		
47.0	69797.8	-56.5		
38.0	74264.6	-55.5		
30.0	79289.1	-51.7		
25.0	83234.2	-47.8		

UPPER AIR DATA
2740030292
JALLEN

STATION ALTITUDE 4051.00 FEET MSL
30 SEP. 76
0815 HRS MDT
ASCENSION NO. 292

WSTM SITE COORDINATES
453491.63 FEET E
464023.05 FEET N

TABLE XIII

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
4051.0	931.2	14.8	6.5	58.0	1051.6	562.5	340.0	1.9	1.000231
4500.0	867.1	15.0	3.9	47.3	1044.0	662.5			1.000270
5000.0	851.6	15.5	3.1	43.4	1024.5	662.9			1.000253
5500.0	836.5	15.9	2.6	40.8	1004.9	663.4			1.000257
6000.0	821.6	15.7	1.8	39.2	987.8	663.2			1.000252
6500.0	807.0	15.2	1.0	77.9	971.8	662.6			1.000246
7000.0	792.6	14.8	.1	75.7	955.2	662.0			1.000241
7500.0	778.4	14.0	-1.8	36.0	941.7	661.1			1.000236
8000.0	764.3	12.7	-2.0	36.0	929.0	659.5			1.000232
8500.0	750.5	11.4	-3.1	76.0	916.5	658.0	143.6	5.8	1.000227
9000.0	736.9	10.1	-4.3	36.0	904.1	656.4	141.0	4.9	1.000222
9500.0	723.5	8.8	-5.4	76.0	891.9	654.9	134.9	4.3	1.000218
10000.0	710.4	7.5	-6.5	76.0	879.9	653.3	119.6	3.0	1.000214
10500.0	697.5	6.4	-7.7	75.5	867.7	651.9	116.3	2.5	1.000210
11000.0	684.6	5.7	-9.2	33.2	853.8	651.1	123.9	2.2	1.000205
11500.0	672.0	5.0	-10.7	70.9	840.2	650.3	119.5	1.4	1.000200
12000.0	659.6	4.4	-12.2	28.5	826.6	649.5	90.6	.6	1.000196
12500.0	647.3	4.1	-13.6	26.2	812.4	649.1	65.1	1.2	1.000192
13000.0	635.3	3.7	-15.0	23.8	798.4	648.6	92.3	1.3	1.000187
13500.0	623.5	3.4	-16.5	21.4	784.7	648.2	161.2	3.1	1.000183
14000.0	611.9	3.0	-18.3	19.0	771.1	647.7	183.3	5.7	1.000179
14500.0	600.5	2.5	-19.1	18.4	759.2	647.1	197.9	8.8	1.000175
15000.0	589.3	1.9	-19.2	19.1	745.8	646.4	203.5	10.9	1.000173
15500.0	578.3	1.2	-19.3	19.8	733.6	645.6	207.0	12.4	1.000170
16000.0	567.3	.2	-19.9	20.2	722.4	644.4	197.9	9.9	1.000167
16500.0	556.5	-.9	-20.7	20.5	711.6	643.0	181.5	7.2	1.000154
17000.0	545.9	-2.0	-21.5	20.8	701.0	641.7	139.2	4.6	1.000162
17500.0	535.6	-3.2	-22.3	21.0	690.6	640.3	95.2	5.2	1.000159
18000.0	525.4	-4.3	-23.1	21.3	680.2	639.0	75.9	6.8	1.000156
18500.0	515.4	-5.4	-23.9	21.6	670.2	637.6	61.7	7.1	1.000154

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4051.00 FEET MSL
30 SEP. 75 0815 HRS MDT
ASCENSION NO. 292

UPPER AIR DATA
2740030292
JALLEN

WSTM SITE COORDINATES
450491.50 FEET E
424023.05 FEET N

TABLE XIII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL-HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
							DIRECTION DEGREES(TN)	SPEED KNOTS	
19000.0	505.6	-6.6	-24.8	21.8	660.2	636.3	46.9	7.2	1.000151
19500.0	495.9	-7.5	-25.6	22.0	650.2	635.0	28.1	6.7	1.000149
20000.0	486.2	-8.6	-26.4	22.0	640.0	633.8	8.7	6.7	1.000146
20500.0	476.3	-9.3	-27.4	21.3	629.2	633.0	2.1	5.5	1.000144
21000.0	467.5	-9.8	-28.4	20.1	618.1	632.3	355.5	4.4	1.000141
21500.0	458.2	-11.2	-29.4	20.4	609.0	630.7	355.7	3.2	1.000139
22000.0	449.1	-12.5	-30.4	20.7	600.1	629.0	357.2	2.6	1.000136
22500.0	440.2	-13.9	-31.4	21.0	591.3	627.4	359.8	2.4	1.000134
23000.0	431.5	-15.3	-32.5	21.3	582.7	625.7	351.3	2.5	1.000132
23500.0	422.9	-16.6	-33.5	21.6	574.2	624.0	339.8	2.8	1.000130
24000.0	414.5	-18.0	-34.5	21.9	565.9	622.4	322.0	3.5	1.000128
24500.0	406.2	-19.0	-35.3	22.0	556.7	621.1	309.9	4.5	1.000125
25000.0	398.0	-19.7	-36.0	21.7	547.0	620.3	302.9	7.0	1.000123
25500.0	389.9	-20.5	-37.0	21.0	537.4	619.3	299.6	9.6	1.000121
26000.0	381.8	-21.8	-38.1	21.2	529.0	617.7	297.4	12.0	1.000119
26500.0	373.9	-23.1	-39.1	21.3	520.8	616.1	295.9	14.1	1.000117
27000.0	366.2	-24.4	-40.2	21.4	512.6	614.5	294.7	14.9	1.000115
27500.0	358.6	-25.7	-41.2	21.5	504.6	612.9	295.2	15.8	1.000113
28000.0	351.1	-27.0	-42.3	21.7	496.8	611.3	298.2	16.6	1.000112
28500.0	343.9	-28.2	-43.3	21.8	489.1	609.7	298.0	17.8	1.000110
29000.0	336.7	-29.5	-44.4	21.9	481.5	608.1	294.7	19.4	1.000108
29500.0	329.7	-30.8	-45.4	22.0	473.8	606.6	284.3	20.5	1.000106
30000.0	322.7	-31.7	-46.1	22.3	465.5	605.4	269.6	22.4	1.000104
30500.0	315.8	-32.6	-46.8	22.5	457.2	604.3	260.6	24.4	1.000102
31000.0	309.1	-33.5	-47.5	22.7	449.2	603.2	254.3	26.4	1.000101
31500.0	302.5	-34.4	-48.2	22.9	441.2	602.0	251.3	28.3	1.000099
32000.0	296.0	-35.7	-49.3	23.0	434.1	600.4	249.1	30.2	1.000097
32500.0	289.5	-37.1	-51.5	20.5**	427.3	598.5	245.6	31.8	1.000096
33000.0	283.2	-38.5	-54.9	15.7**	420.4	596.8	242.6	33.3	1.000094
33500.0	277.0	-39.8	-58.8	11.0**	413.5	595.1	242.2	32.6	1.000092

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4051.00 FEET MSL
30 SEP. 78 0815 HRS MDT
ASCENSION NO. 232

UPPER AIR DATA
2740030292
JALLEN

WSIM SITE COORDINATES
450491.60 FEET E
464023.05 FEET N

TABLE XIII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE				DIRECTION DEGREES(TN)	SPEED KNOTS	
34000.0	270.9	-41.2	-64.1	6.3**	406.8	593.3	241.9	31.8	1.000091
34500.0	254.9	-42.5	-74.9	1.5**	400.2	591.6	242.3	31.1	1.000089
35000.0	253.0	-43.5			393.1	590.3	244.2	30.5	1.000083
35500.0	252.2	-44.4			385.7	589.2	249.7	30.6	1.000086
36000.0	247.5	-45.3			378.6	588.0	255.9	31.4	1.000084
36500.0	242.0	-46.4			371.7	586.7	264.0	33.9	1.000083
37000.0	235.5	-47.4			364.9	585.4	270.5	37.2	1.000081
37500.0	231.1	-48.1			357.7	584.5	274.3	41.6	1.000080
38000.0	225.8	-48.8			350.6	583.6	276.5	46.4	1.000073
38500.0	220.7	-49.5			343.7	582.7	275.8	52.3	1.000077
39000.0	215.5	-49.9			336.4	582.1	274.2	58.2	1.000075
39500.0	210.7	-50.2			329.1	581.8	270.7	64.1	1.000073
40000.0	205.8	-50.9			322.5	580.9	267.8	69.5	1.000072
40500.0	201.1	-52.0			316.8	579.3	265.2	73.7	1.000071
41000.0	195.3	-53.2			311.0	577.7	263.3	77.3	1.000059
41500.0	191.7	-54.5			305.4	576.1	262.3	78.7	1.000068
42000.0	187.2	-55.7			299.8	574.5	261.3	79.7	1.000057
42500.0	182.8	-56.9			294.4	572.9	260.1	79.7	1.000066
43000.0	178.4	-58.1			289.1	571.3	259.2	80.2	1.000054
43500.0	174.2	-59.3			283.9	569.6	258.6	81.4	1.000063
44000.0	170.1	-60.5			278.8	568.0	258.0	82.2	1.000052
44500.0	166.0	-61.7			273.6	566.6	257.4	82.6	1.000061
45000.0	161.9	-62.7			269.1	565.1	257.2	82.4	1.000050
45500.0	158.0	-63.8			263.0	563.6	257.5	81.2	1.000059
46000.0	154.2	-64.8			257.7	562.4	259.4	80.3	1.000057
46500.0	150.4	-65.5			252.7	561.4	260.1	78.9	1.000056
47000.0	146.6	-67.2			249.0	559.1	261.9	77.9	1.000055
47500.0	143.0	-69.0			242.8	558.0	263.8	77.2	1.000054
48000.0	139.4	-68.9			237.7	556.8	265.7	76.1	1.000053
48500.0	135.9	-69.7			232.7	555.6	267.9	73.3	1.000052

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4051.00 FEET MSL
30 SEP. 75
ASCENSION NO. 292

UPPER AIR DATA
2740030292
JALLEN

TABLE XIII (CONT)

WSIM SITE COORDINATES
450491.60 FEET E
464023.05 FEET N

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
49000.0	132.4	-70.5			227.8	554.5	270.3	70.5	1.000051
49500.0	129.1	-71.4			227.0	553.3	272.2	65.6	1.000050
50000.0	125.9	-72.3			218.3	552.1	274.5	60.8	1.000049
50500.0	122.7	-71.4			211.9	553.3	277.5	52.8	1.000047
51000.0	119.6	-70.0			205.1	555.3	281.3	45.0	1.000045
51500.0	116.6	-70.7			200.6	554.3	282.1	37.2	1.000045
52000.0	113.6	-71.4			195.1	553.4	292.8	30.0	1.000044
52500.0	110.8	-71.3			191.2	553.5	278.8	29.4	1.000043
53000.0	108.0	-71.1			185.1	553.8	275.4	28.8	1.000041
53500.0	105.2	-70.9			181.2	554.1	277.2	26.2	1.000040
54000.0	102.6	-70.6			176.4	554.4	279.5	23.4	1.000039
54500.0	100.0	-70.4			171.8	554.7	284.4	17.8	1.000038
55000.0	97.5	-70.3			167.4	554.9	293.6	12.5	1.000037
55500.0	95.0	-70.2			163.1	555.0	298.2	11.6	1.000036
56000.0	92.6	-70.1			158.9	555.2	303.5	10.9	1.000035
56500.0	90.3	-69.9			154.8	555.4	305.4	9.9	1.000034
57000.0	88.0	-69.8			150.8	555.5	307.4	9.0	1.000034
57500.0	85.8	-69.7			146.9	555.7	304.6	7.5	1.000033
58000.0	83.7	-69.6			143.2	555.8	297.7	5.9	1.000032
58500.0	81.5	-69.1			139.2	556.5	284.5	4.8	1.000031
59000.0	79.5	-67.3			134.6	559.0	265.5	4.5	1.000030
59500.0	77.6	-65.8			130.3	561.0	249.7	4.6	1.000029
60000.0	75.7	-65.2			126.7	561.8	241.2	4.5	1.000028
60500.0	73.8	-64.6			123.3	562.6	233.6	4.5	1.000027
61000.0	72.0	-64.0			119.9	563.3	224.4	4.5	1.000027
61500.0	70.2	-63.5			116.7	564.1	215.4	4.6	1.000025
62000.0	68.5	-63.1			113.7	564.6	226.9	2.7	1.000025
62500.0	66.9	-62.8			110.7	565.0	289.6	1.3	1.000025
63000.0	65.2	-62.5			107.9	565.4	343.5	3.2	1.000024
63500.0	63.7	-62.2			105.1	565.8	352.7	5.9	1.000023

STATION ALTITUDE 4051.00 FEET MSL
30 SEP. 7E
ASCENSION NO. 232

UPPER AIR DATA
2740030292
JALLEN

WSM SITE COORDINATES
450491.60 FEET E
464023.05 FEET N

TABLE XIII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (TN)	SPEED KNOTS	
64000.0	62.1	-61.7		102.4	566.5	356.5	6.3	1.000023
64500.0	60.5	-61.0		99.6	567.4	1.8	4.7	1.000022
65000.0	59.2	-60.4		96.9	568.3	16.1	3.0	1.000022
65500.0	57.8	-59.7		94.3	569.2	67.7	2.3	1.000021
66000.0	56.4	-59.0		91.8	570.1	120.8	2.6	1.000020
66500.0	55.1	-58.4		89.3	570.9	178.1	3.2	1.000020
67000.0	53.7	-57.7		86.9	571.8	202.3	5.4	1.000019
67500.0	52.5	-57.0		84.6	572.7	216.8	7.2	1.000019
68000.0	51.2	-56.4		82.3	573.6	225.3	9.2	1.000018
68500.0	50.0	-55.7		80.1	574.5	231.5	8.2	1.000018
69000.0	48.8	-55.0		78.3	574.1	240.0	6.9	1.000017
69500.0	47.7	-55.7		76.6	573.7	248.7	5.8	1.000017
70000.0	46.5	-55.5		74.8	573.5	259.0	4.9	1.000017
70500.0	45.5	-56.3		73.0	573.6	267.3	3.7	1.000016
71000.0	44.4	-56.2		71.3	573.8	273.6	2.3	1.000015
71500.0	43.3	-56.1		69.6	573.9	295.3	1.1	1.000015
72000.0	42.3	-56.0		67.9	574.1	335.5	.9	1.000015
72500.0	41.3	-55.9		66.3	574.2	11.5	1.2	1.000015
73000.0	40.4	-55.8		64.7	574.4	10.2	2.5	1.000014
73500.0	39.4	-55.7		63.1	574.5	9.1	3.9	1.000014
74000.0	38.5	-55.6		61.6	574.7	11.8	4.5	1.000014
74500.0	37.6	-55.3		60.1	575.0	16.2	4.6	1.000013
75000.0	36.7	-54.9		58.6	575.5	25.9	4.5	1.000013
75500.0	35.9	-54.6		57.1	576.0	48.9	4.3	1.000013
76000.0	35.0	-54.2		55.7	576.5	70.0	4.8	1.000012
76500.0	34.2	-53.8		54.3	577.0	77.3	6.8	1.000012
77000.0	33.4	-53.4		53.0	577.5	81.3	8.8	1.000012
77500.0	32.6	-53.1		51.7	578.0	83.1	9.3	1.000012
78000.0	31.9	-52.7		50.4	578.5	84.6	9.2	1.000011
78500.0	31.1	-52.3		49.1	579.0	87.6	9.2	1.000011

UPPER AIR DATA
2740030292
JALLEN

STATION ALTITUDE 4051.00 FEET MSL
30 SEP. 75
ASCENSION NO. 292

WSTM SITE COORDINATES
453491.63 FEET E
464023.05 FEET N

TABLE XIII (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
79000.0	30.4	-51.9		47.9	579.5	96.2	9.4	1.000011
79500.0	29.7	-51.5		46.7	580.0	104.2	9.8	1.000010
80000.0	29.0	-51.0		45.5	580.7	111.6	11.7	1.000010
80500.0	28.4	-50.5		44.4	581.3	116.7	14.3	1.000010
81000.0	27.7	-50.0		43.3	581.9			1.000010
81500.0	27.1	-49.5		42.2	582.6			1.000009
82000.0	26.5	-49.0		41.1	583.2			1.000009
82500.0	25.9	-48.5		40.1	583.9			1.000009
83000.0	25.3	-48.0		39.1	584.5			1.000009

STATION ALTITUDE 4051.00 FEET MSL
 30 SEP. 76 0815 HRS MDT
 ASCENSION NO. 232

MANDATORY LEVELS
 2740030292
 JALLEN

TABLE XIV

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	5052.	15.5	3.0	43.	9999.0	9999.0XX
800.0	6740.	15.0	.6	37.	9999.0	9999.0XX
750.0	8523.	11.4	-3.1	36.	143.5	5.7
700.0	10397.	6.5	-7.5	36.	115.0	2.6
650.0	12383.	4.2	-13.3	27.	68.2	1.0
600.0	14512.	2.5	-19.1	18.	198.3	9.3
550.0	16804.	-1.6	-21.2	21.	159.2	5.1
500.0	19267.	-7.2	-25.2	22.	36.8	6.9
450.0	21937.	-12.4	-30.3	21.	357.0	2.6
400.0	24845.	-19.6	-35.8	22.	304.1	6.4
350.0	28055.	-27.2	-42.4	22.	298.7	16.8
300.0	31638.	-34.7	-48.4	23.	250.5	29.3
250.0	35717.	-44.9			252.7	30.8
200.0	40529.	-52.3			264.6	74.6
175.0	43319.	-59.1			258.7	81.2
150.0	46437.	-65.6			260.2	78.8
125.0	50007.	-72.5			275.2	58.8
100.0	54343.	-70.4			284.2	18.3
80.0	58704.	-67.7			270.7	4.5
70.0	61374.	-53.4			214.4	4.6
60.0	64497.	-60.7			5.0	4.1
50.0	68253.	-55.7			231.3	8.3
40.0	72917.	-55.7			9.7	3.0
30.0	78976.	-51.7			100.7	9.6
25.0	82891.	-47.8				

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.